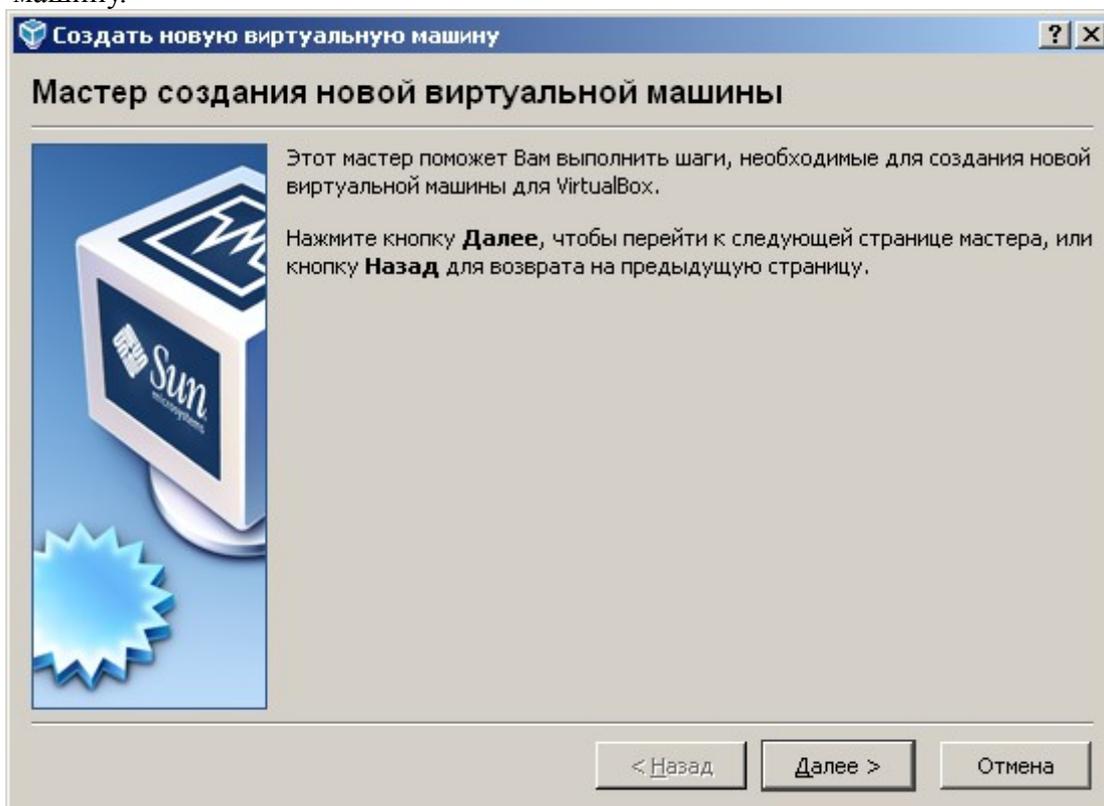
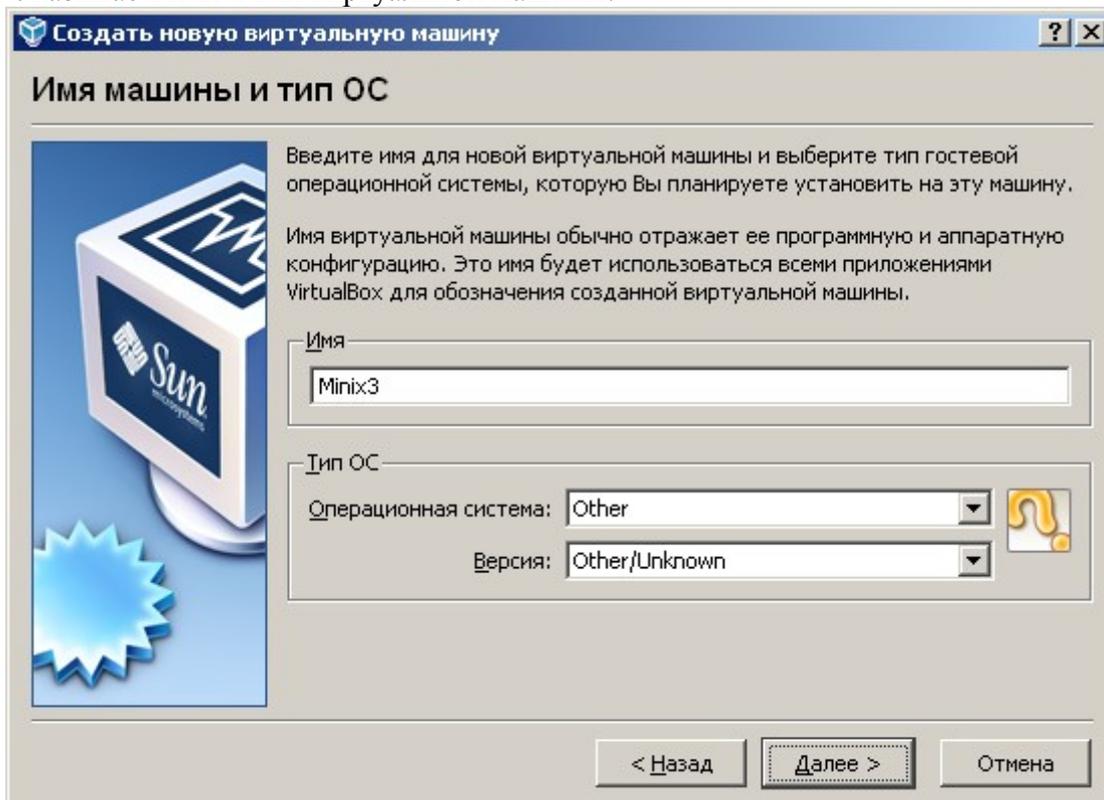


## Установка Minix на VirtualBox (Windows)

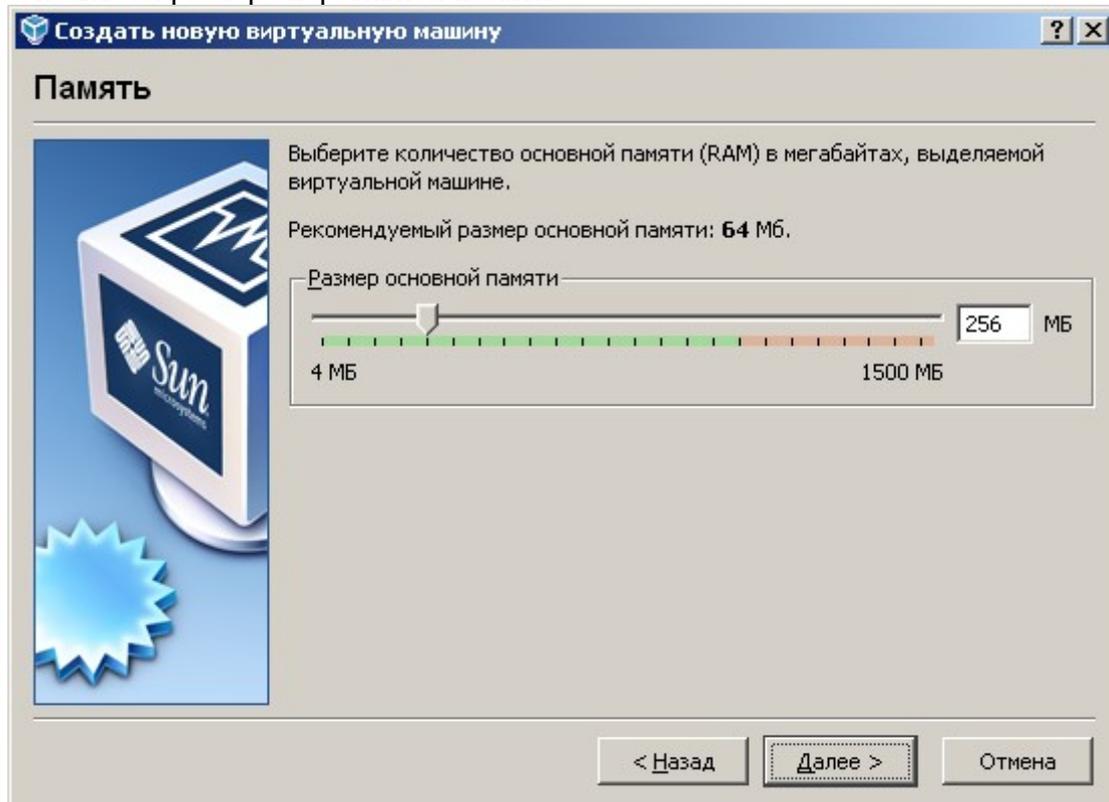
1. Скачиваем и устанавливаем VirtualBox с сайта <http://www.virtualbox.org/>  
На момент написания этого текста доступна версия VirtualBox-3.1.0
2. Запускаем VirtualBox (Пуск-Программы-Sun VirtualBox). Создаем новую виртуальную машину.



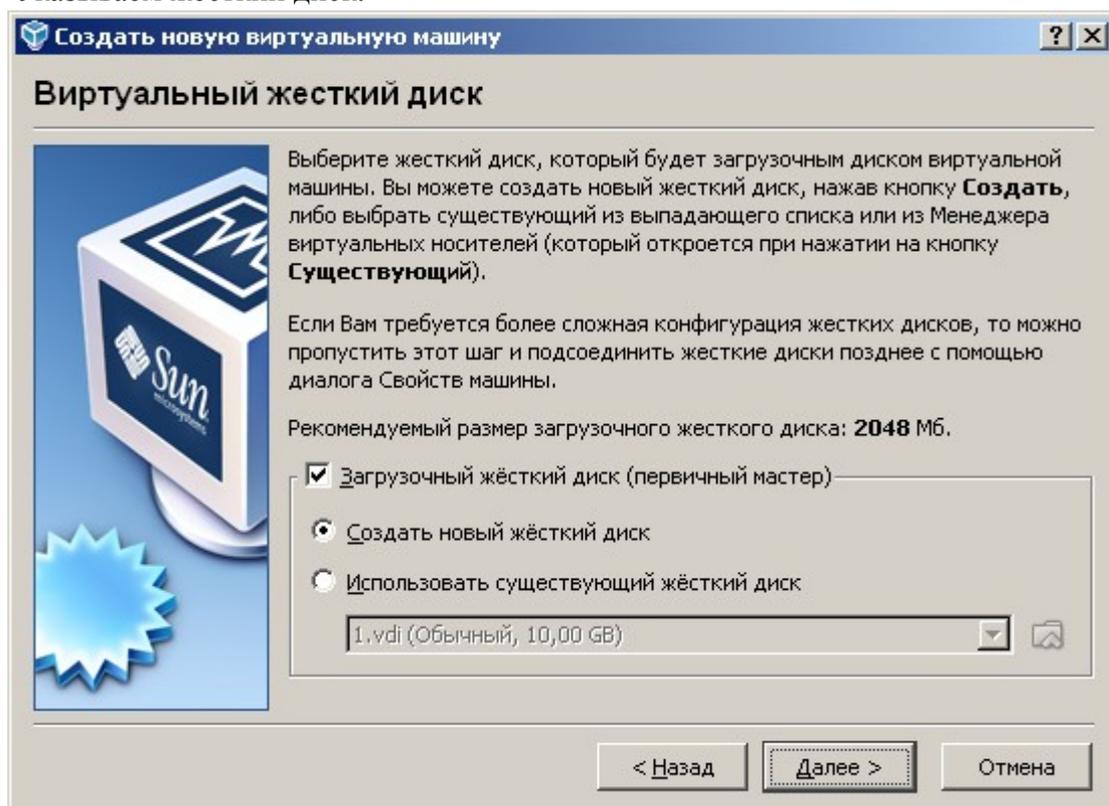
3. Указываем имя и тип виртуальной машины.



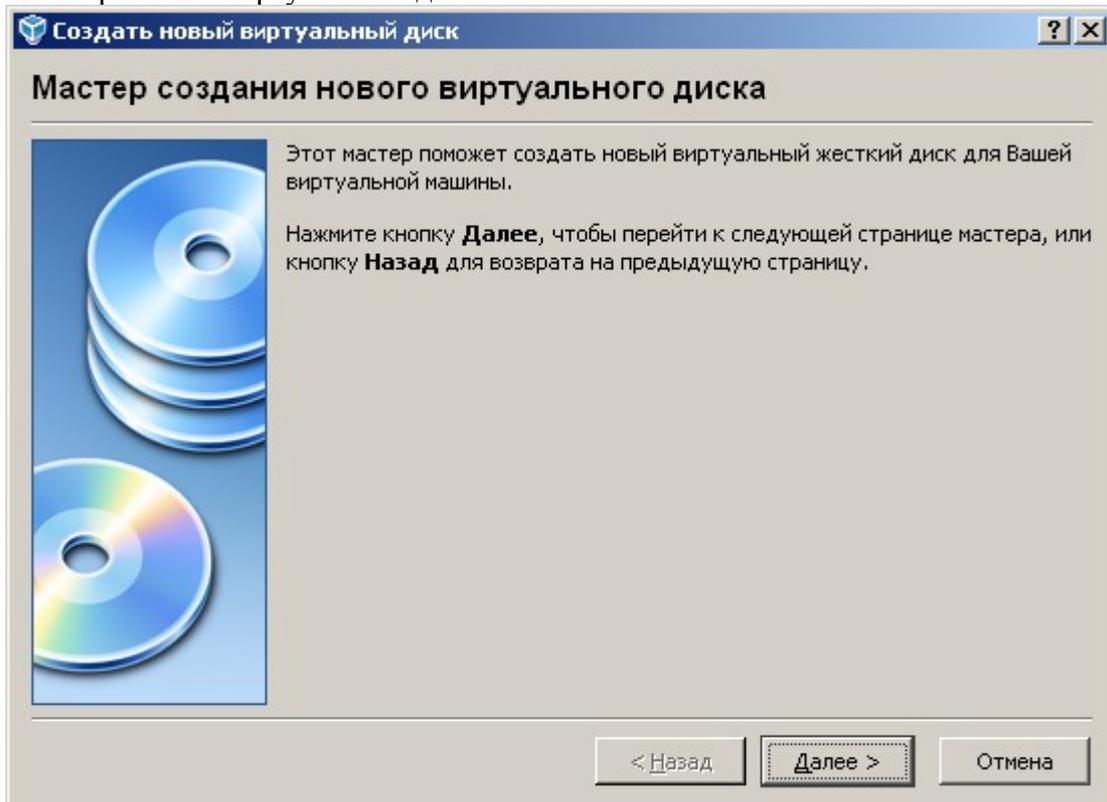
4. Указываем размер оперативной памяти.



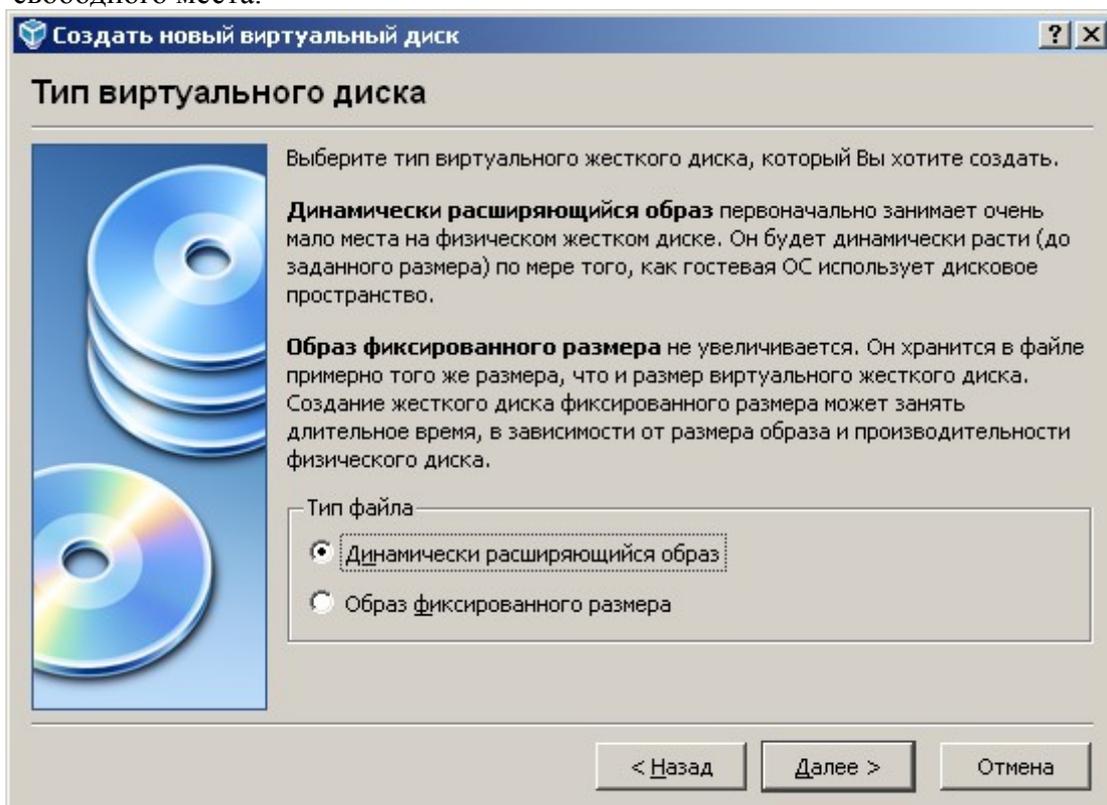
5. Указываем жесткий диск.



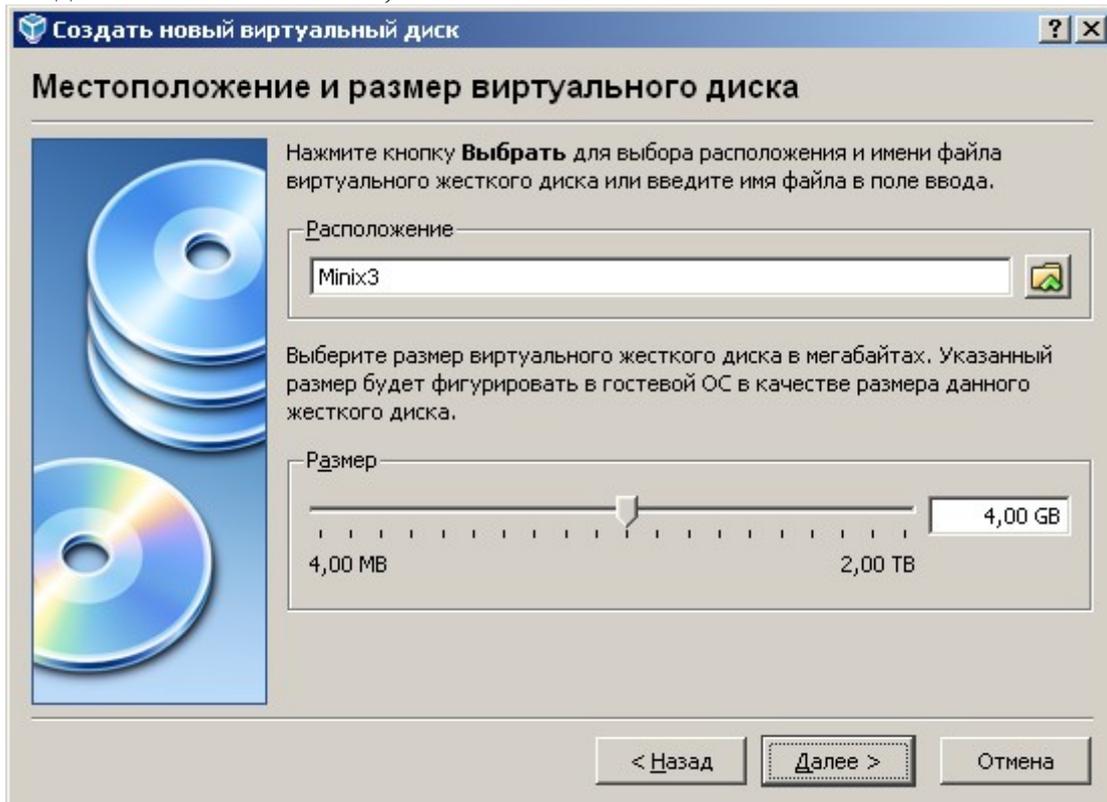
6. Мастер нового виртуального диска.



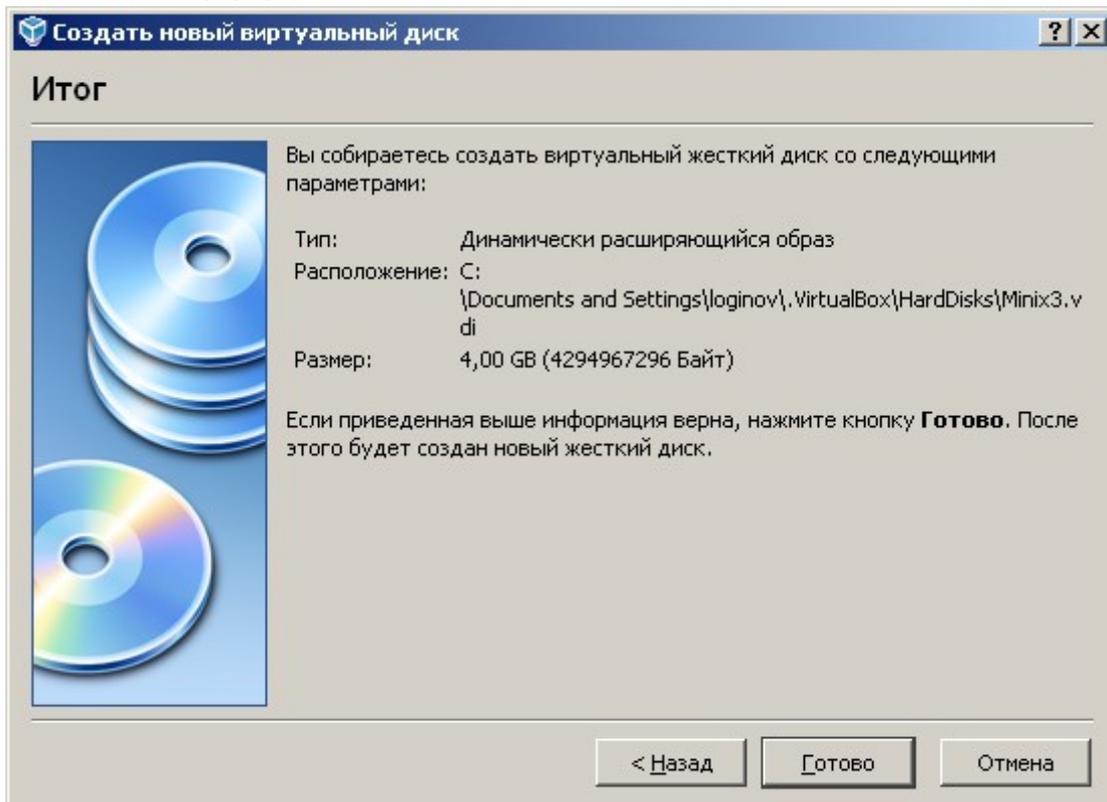
7. Определяем тип виртуального диска. Я выбрал динамический расширяющийся образ, чтобы не занимать лишнее место на реальном жестком диске. Для полной установки (со всеми пакетами) на реальном жестком диске потребуется не менее 1.82 ГБ свободного места.



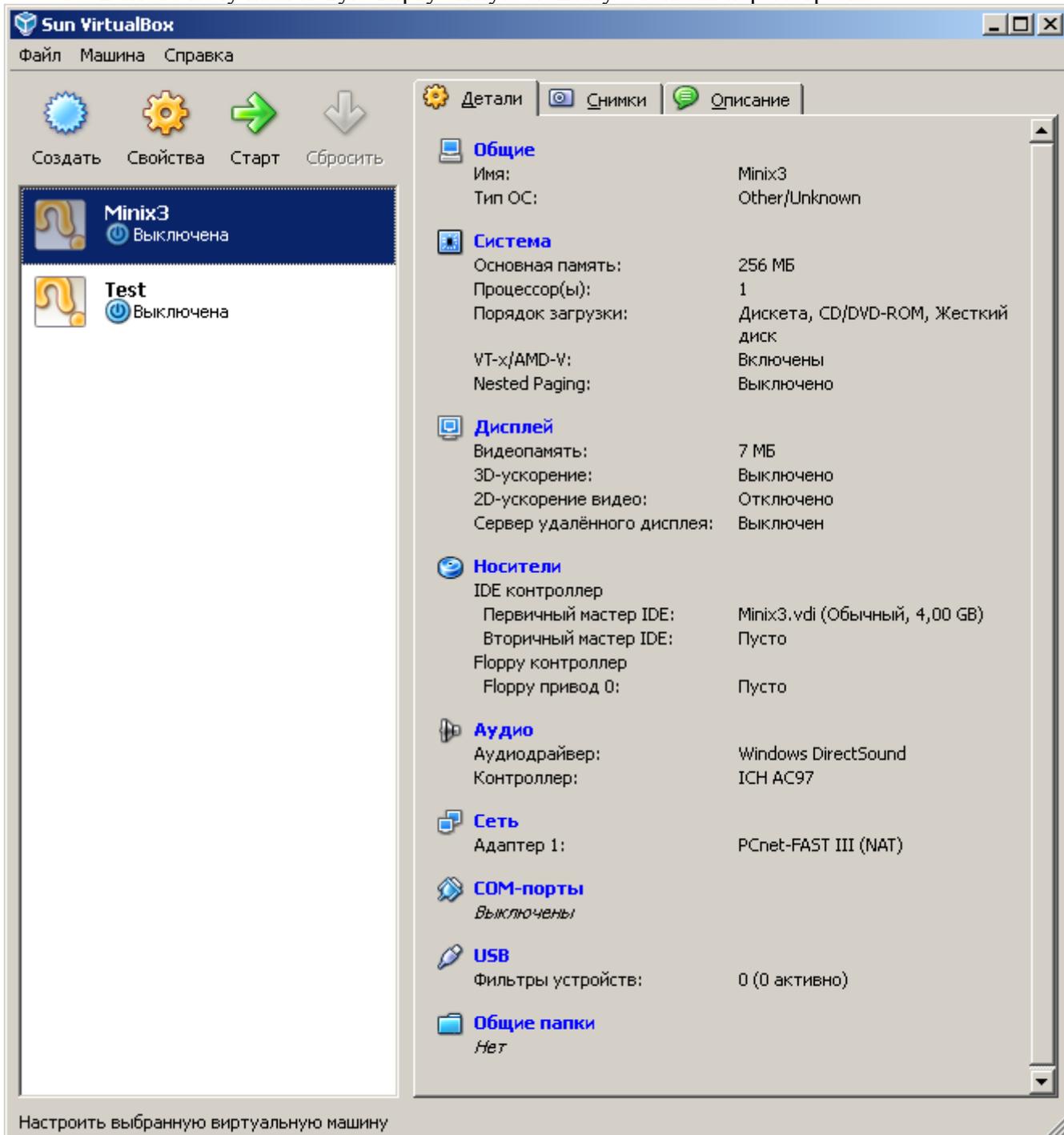
8. Задаем имя и размер виртуального диска. Виртуальный диск располагается в [C:\Documents and Settings\ИмяПрофиля\.VirtualBox\HardDisks\\\*.vdi](C:\Documents and Settings\ИмяПрофиля\.VirtualBox\HardDisks\*.vdi)  
Выделяем побольше - 4 ГБ, чтобы не мелочиться.



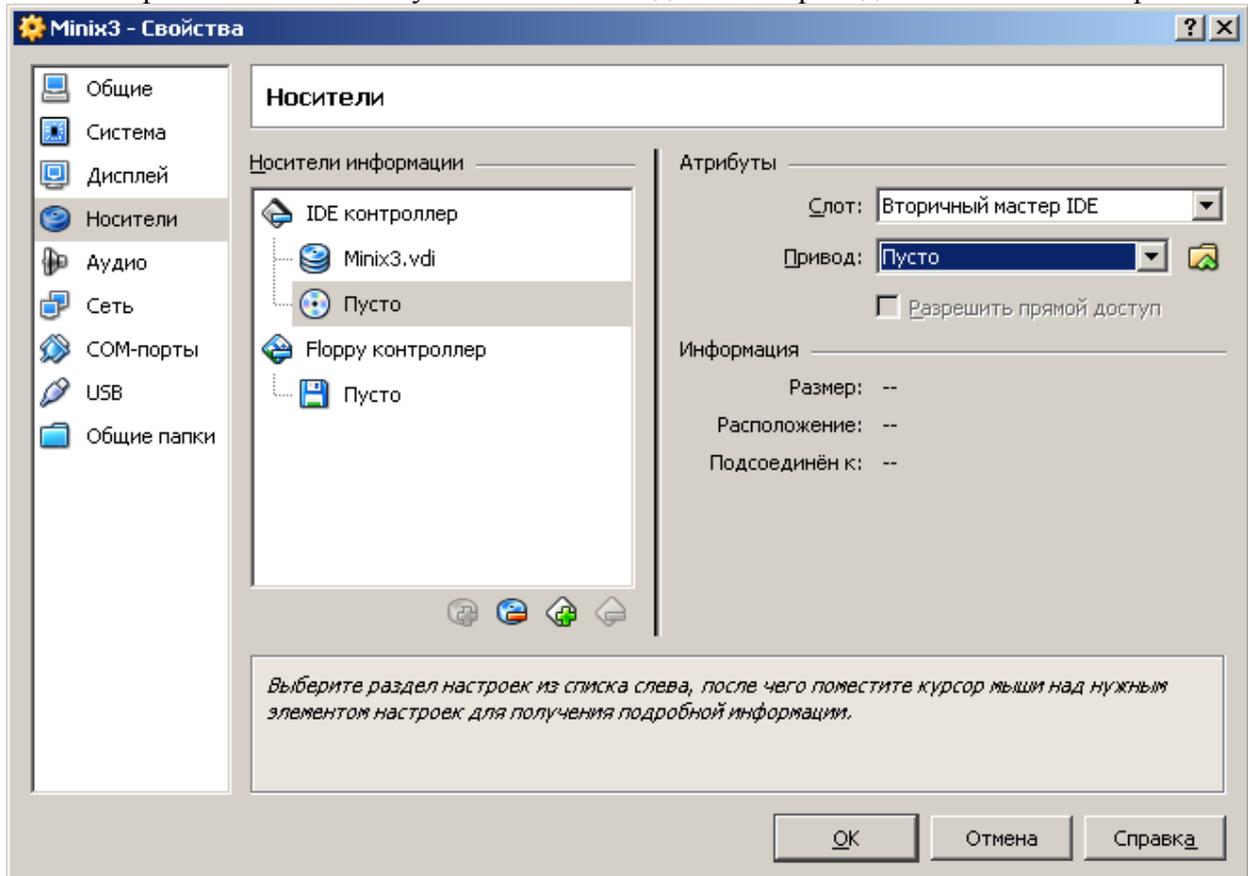
9. Нажимаем «Готово».



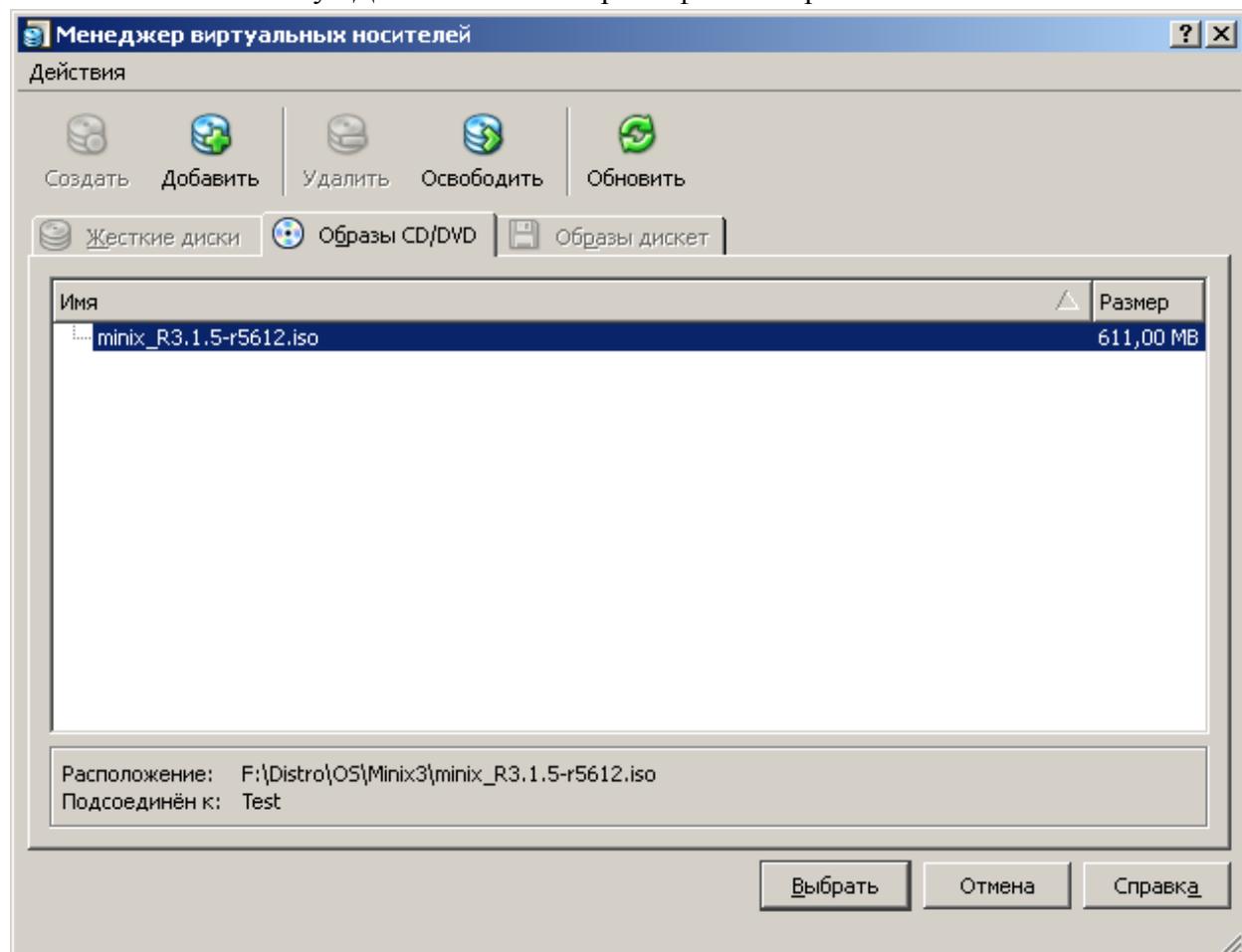
10. В итоге получили новую виртуальную машину с такими параметрами.



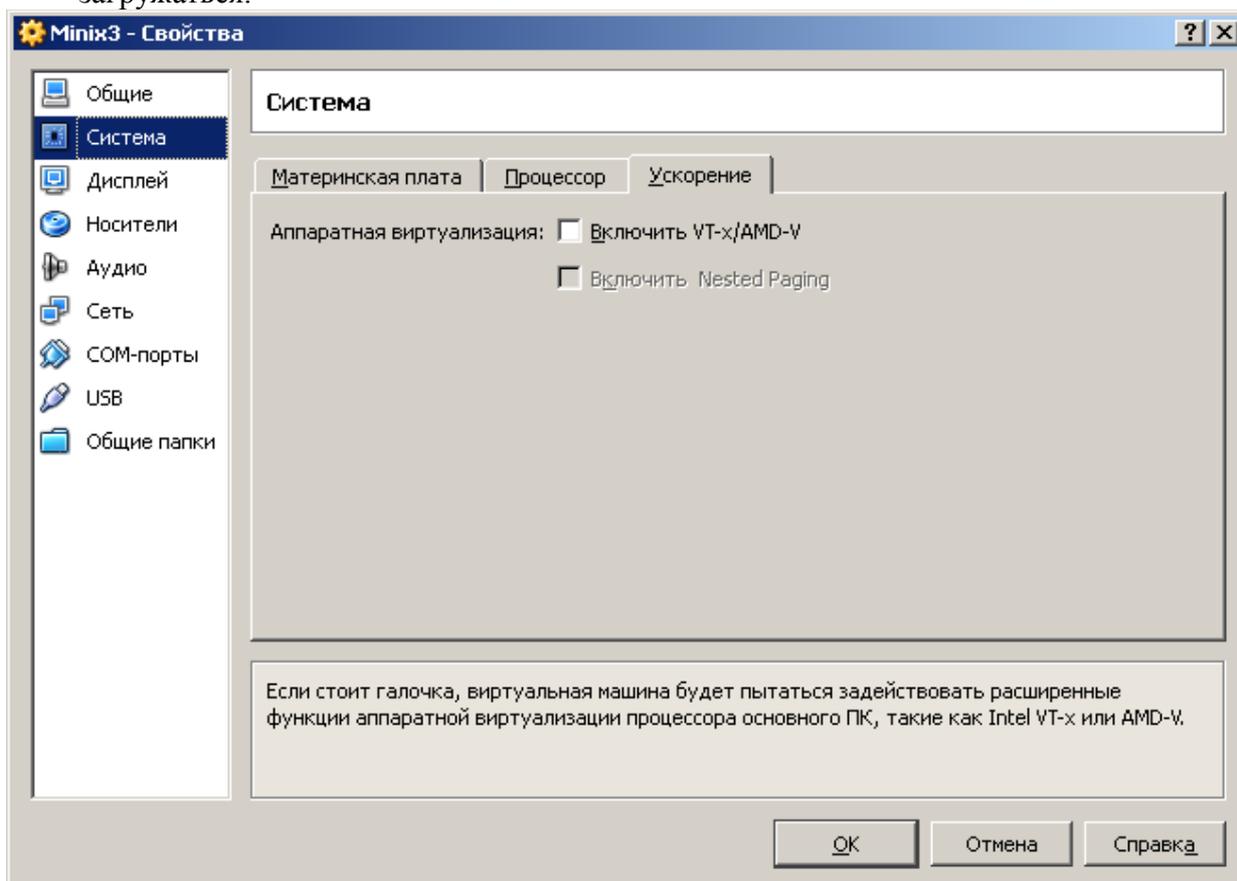
11. Теперь нажимаем кнопку «Свойства» и задаем CD привод. Я использовал образ ISO.



12. Нажимаем кнопку «Добавить» и выбираем файл с образом CD.



13. Обязательно отключаем аппаратную виртуализацию, иначе Minix не будет загружаться.

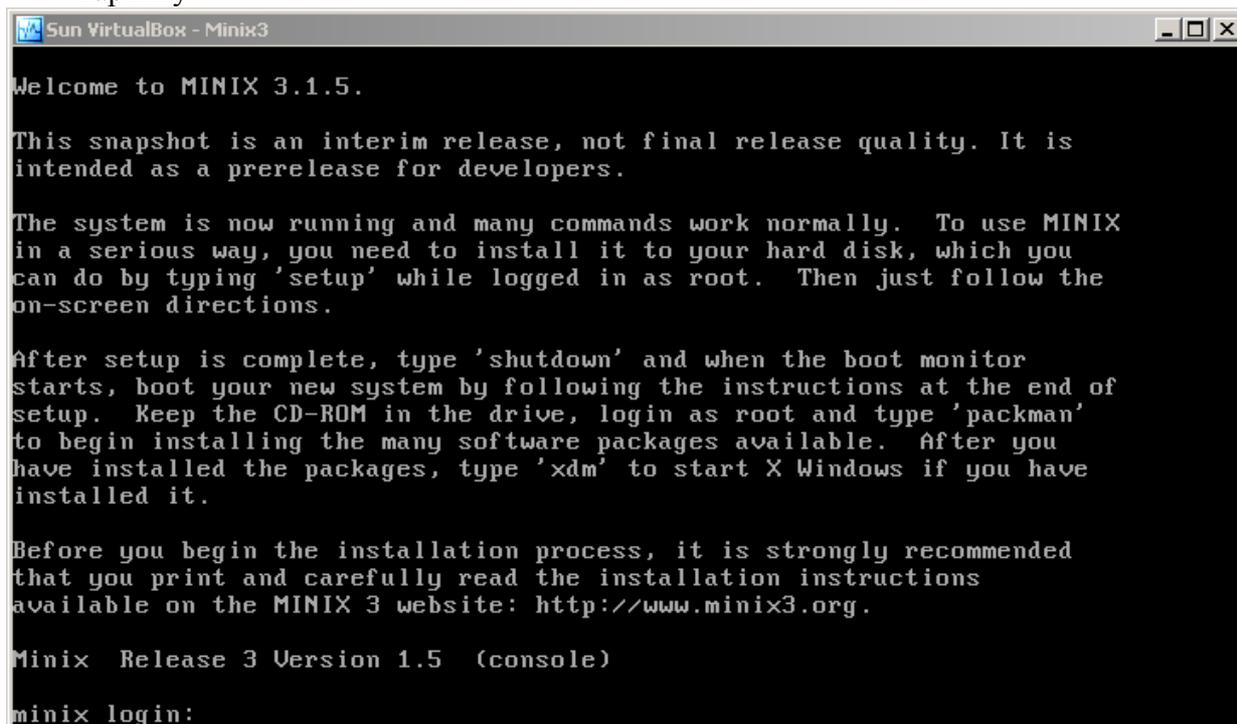


14. Закрываем программу VirtualBox

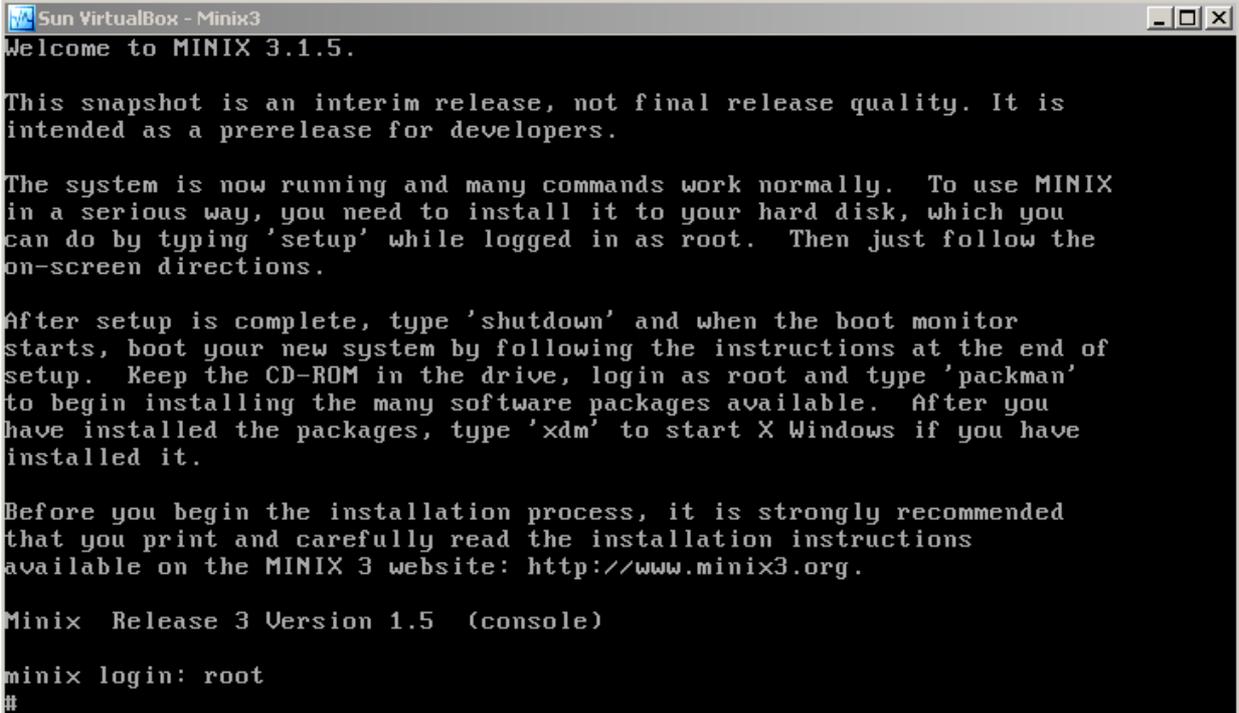
15. Создаем где-нибудь bat файл (например Run-VirtualBox-Minix.bat) со следующим содержимым:

```
"C:\Program Files\Sun\VirtualBox\VBoxSDL.exe" --startvm Minix3 --norawr0 --norawr3
```

16. Запускаем получившийся файл. Должны увидеть загрузку с CD-ROM и за тем такую картину



17. Вводим имя **root** и нажимаем Enter. Должны увидеть такую картину.  
Символ # (решетка) означает, что система ожидает ввода команд и сейчас вы находитесь под суперпользователем.



```
Sun VirtualBox - Minix3
Welcome to MINIX 3.1.5.

This snapshot is an interim release, not final release quality. It is
intended as a prerelease for developers.

The system is now running and many commands work normally. To use MINIX
in a serious way, you need to install it to your hard disk, which you
can do by typing 'setup' while logged in as root. Then just follow the
on-screen directions.

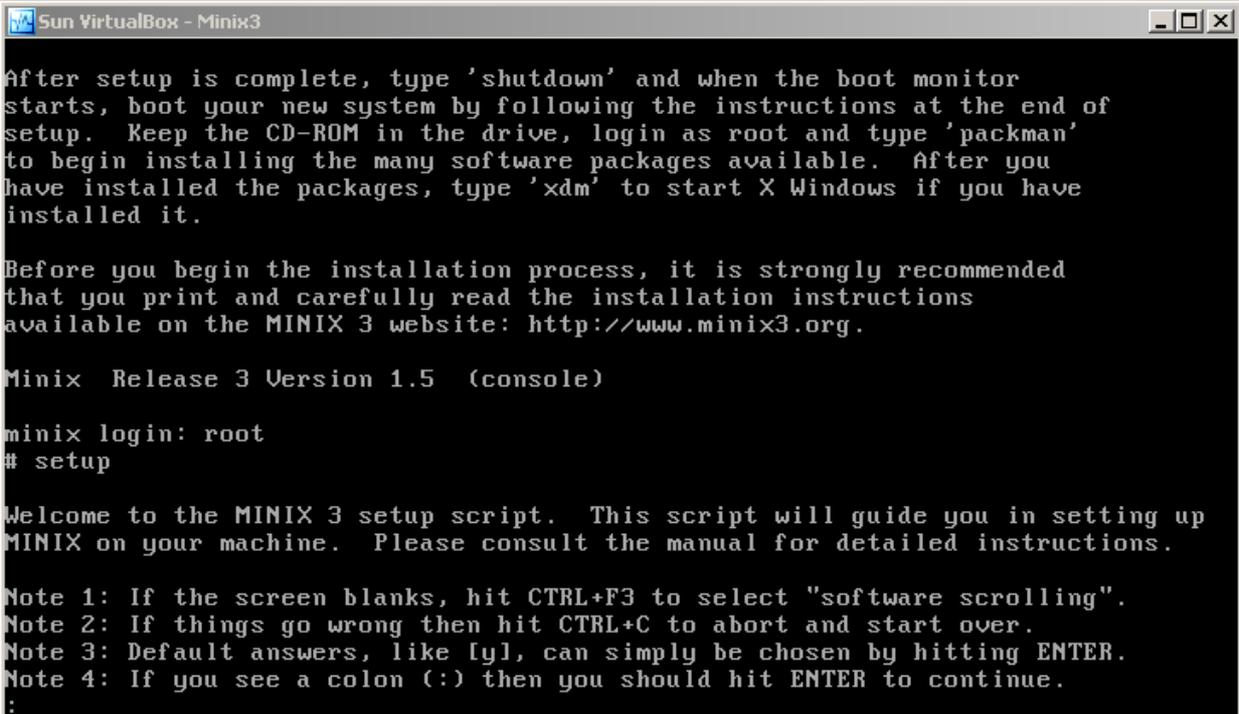
After setup is complete, type 'shutdown' and when the boot monitor
starts, boot your new system by following the instructions at the end of
setup. Keep the CD-ROM in the drive, login as root and type 'packman'
to begin installing the many software packages available. After you
have installed the packages, type 'xdm' to start X Windows if you have
installed it.

Before you begin the installation process, it is strongly recommended
that you print and carefully read the installation instructions
available on the MINIX 3 website: http://www.minix3.org.

Minix Release 3 Version 1.5 (console)

minix login: root
#
```

18. Вводим команду **setup** и получаем такое сообщение. Для продолжения нажимаем Enter.



```
Sun VirtualBox - Minix3

After setup is complete, type 'shutdown' and when the boot monitor
starts, boot your new system by following the instructions at the end of
setup. Keep the CD-ROM in the drive, login as root and type 'packman'
to begin installing the many software packages available. After you
have installed the packages, type 'xdm' to start X Windows if you have
installed it.

Before you begin the installation process, it is strongly recommended
that you print and carefully read the installation instructions
available on the MINIX 3 website: http://www.minix3.org.

Minix Release 3 Version 1.5 (console)

minix login: root
# setup

Welcome to the MINIX 3 setup script. This script will guide you in setting up
MINIX on your machine. Please consult the manual for detailed instructions.

Note 1: If the screen blanks, hit CTRL+F3 to select "software scrolling".
Note 2: If things go wrong then hit CTRL+C to abort and start over.
Note 3: Default answers, like [y], can simply be chosen by hitting ENTER.
Note 4: If you see a colon (:) then you should hit ENTER to continue.
:
```

19. Далее система спрашивает о раскладке клавиатуры. Я вводил russian, хотя для начала можно выбрать любой вариант или оставить по умолчанию (все-равно все команды вводятся латиницей). Значение по умолчанию записывается в квадратных скобках [...]. В данном случае [us-std].

```
Sun VirtualBox - Minix3
Minix Release 3 Version 1.5 (console)

minix login: root
# setup

Welcome to the MINIX 3 setup script. This script will guide you in setting up
MINIX on your machine. Please consult the manual for detailed instructions.

Note 1: If the screen blanks, hit CTRL+F3 to select "software scrolling".
Note 2: If things go wrong then hit CTRL+C to abort and start over.
Note 3: Default answers, like [y], can simply be chosen by hitting ENTER.
Note 4: If you see a colon (:) then you should hit ENTER to continue.
:
:

--- Step 1: Select keyboard type -----
What type of keyboard do you have? You can choose one of:

    dvorak      latin-am      russian      us-std-esc
    french      latin-america  scandinavian  us-std
    german      olivetti      scandinavn   us-swap
    italian     polish        spanish
    japanese    russian-cp866  uk

Keyboard type? [us-std] russian_
```

20. Создание раздела для Minix. Нажимаем Enter чтобы воспользоваться пошаговыми инструкциями.

```
Sun VirtualBox - Minix3
    dvorak      latin-am      russian      us-std-esc
    french      latin-america  scandinavian  us-std
    german      olivetti      scandinavn   us-swap
    italian     polish        spanish
    japanese    russian-cp866  uk

Keyboard type? [us-std] russian

--- Step 2: Selecting full distribution -----

--- Step 3: Create or select a partition for MINIX 3 -----

Now you need to create a MINIX 3 partition on your hard disk.
You can also select one that's already there.

If you have an existing installation, reinstalling will let you
keep your current partitioning and subpartitioning, and overwrite
everything except your s1 subpartition (/home). If you want to
reinstall, select your existing minix partition.

Unless you are an expert, you are advised to use the automated
step-by-step help in setting up.

Press ENTER for automatic mode, or type 'expert': _
```

## 21. Номер диска. Нажимаем Enter.

```
Sun VirtualBox - Minix3
--- Step 3: Create or select a partition for MINIX 3 -----
Now you need to create a MINIX 3 partition on your hard disk.
You can also select one that's already there.

If you have an existing installation, reinstalling will let you
keep your current partitioning and subpartitioning, and overwrite
everything except your s1 subpartition (/home). If you want to
reinstall, select your existing minix partition.

Unless you are an expert, you are advised to use the automated
step-by-step help in setting up.

Press ENTER for automatic mode, or type 'expert':

--- Substep 3.1: Select a disk to install MINIX 3 -----
Probing for disks. This may take a short while..... Probing done.
The following disk was found on your system:

Disk [0]: /dev/c0d0, 4096 MB
          Free space          (4094 MB)

Enter the disk number to use: [0]
```

## 22. Выбор размера. Нажимаем Enter.

```
Sun VirtualBox - Minix3
Unless you are an expert, you are advised to use the automated
step-by-step help in setting up.

Press ENTER for automatic mode, or type 'expert':

--- Substep 3.1: Select a disk to install MINIX 3 -----
Probing for disks. This may take a short while..... Probing done.
The following disk was found on your system:

Disk [0]: /dev/c0d0, 4096 MB
          Free space          (4094 MB)

Enter the disk number to use: [0]

--- Substep 3.2: Select a disk region -----
Please select the region that you want to use for the MINIX 3 setup.
If you select an in-use region it will be overwritten by MINIX. The
following region were found on the selected disk:

[0] Free space          (4094 MB)

Enter the region number to use or type 'delete': [0]
```

### 23. Подтверждаем. Вводим **yes** и нажимаем Enter.

```
Sun VirtualBox - Minix3
Probing for disks. This may take a short while..... Probing done.
The following disk was found on your system:

  Disk [0]: /dev/c0d0, 4096 MB
           Free space           (4094 MB)

Enter the disk number to use: [0]

--- Substep 3.2: Select a disk region -----
Please select the region that you want to use for the MINIX 3 setup.
If you select an in-use region it will be overwritten by MINIX. The
following region were found on the selected disk:

  [0] Free space           (4094 MB)

Enter the region number to use or type 'delete': [0]

--- Substep 3.3: Confirm your choices -----
This is the point of no return. You have selected to install MINIX 3
into region 0 of disk /dev/c0d0. Please confirm that you want
to use this selection to install MINIX 3.

Are you sure you want to continue? Please enter 'yes' or 'no': yes_
```

### 24. Ввод размера раздела для файлов пользователей (/home). Оставляем значение по умолчанию. Нажимаем Enter.

```
Sun VirtualBox - Minix3
Please select the region that you want to use for the MINIX 3 setup.
If you select an in-use region it will be overwritten by MINIX. The
following region were found on the selected disk:

  [0] Free space           (4094 MB)

Enter the region number to use or type 'delete': [0]

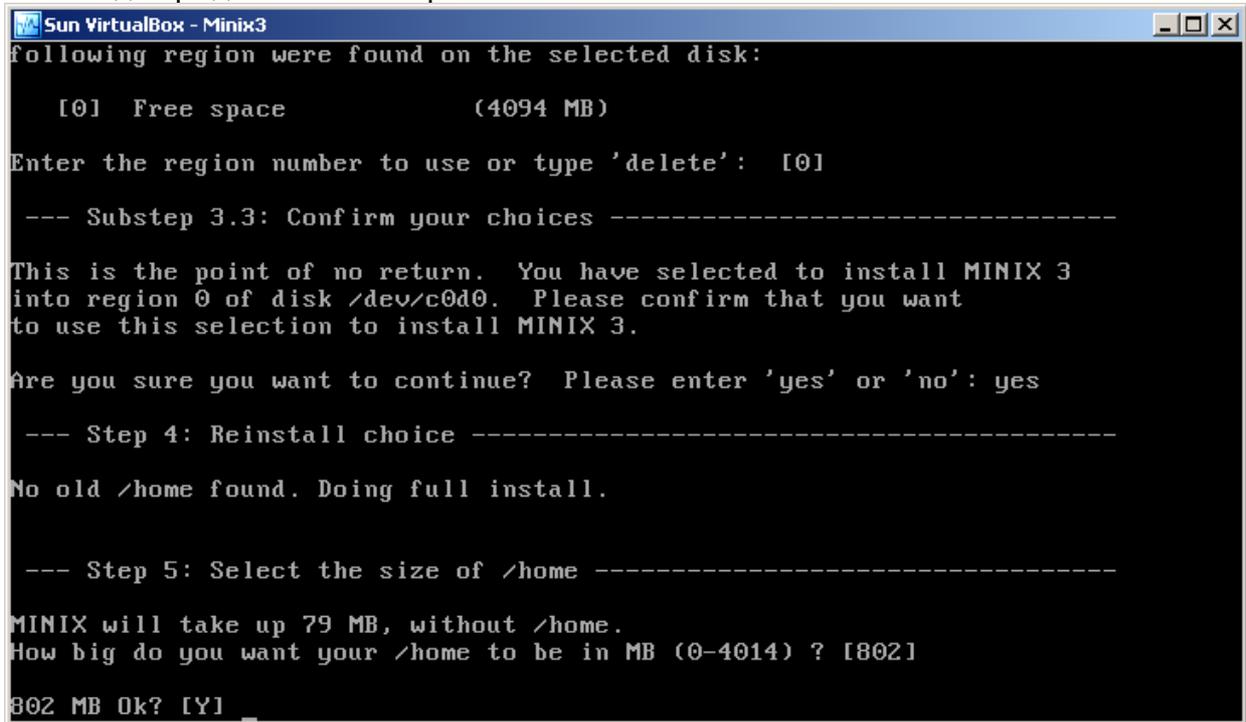
--- Substep 3.3: Confirm your choices -----
This is the point of no return. You have selected to install MINIX 3
into region 0 of disk /dev/c0d0. Please confirm that you want
to use this selection to install MINIX 3.

Are you sure you want to continue? Please enter 'yes' or 'no': yes

--- Step 4: Reinstall choice -----
No old /home found. Doing full install.

--- Step 5: Select the size of /home -----
MINIX will take up 79 MB, without /home.
How big do you want your /home to be in MB (0-4014) ? [802] _
```

25. Подтверждаем свой выбор. Нажимаем Enter.



```
Sun VirtualBox - Minix3
following region were found on the selected disk:

  [0] Free space          (4094 MB)

Enter the region number to use or type 'delete': [0]

--- Substep 3.3: Confirm your choices -----

This is the point of no return.  You have selected to install MINIX 3
into region 0 of disk /dev/c0d0.  Please confirm that you want
to use this selection to install MINIX 3.

Are you sure you want to continue?  Please enter 'yes' or 'no': yes

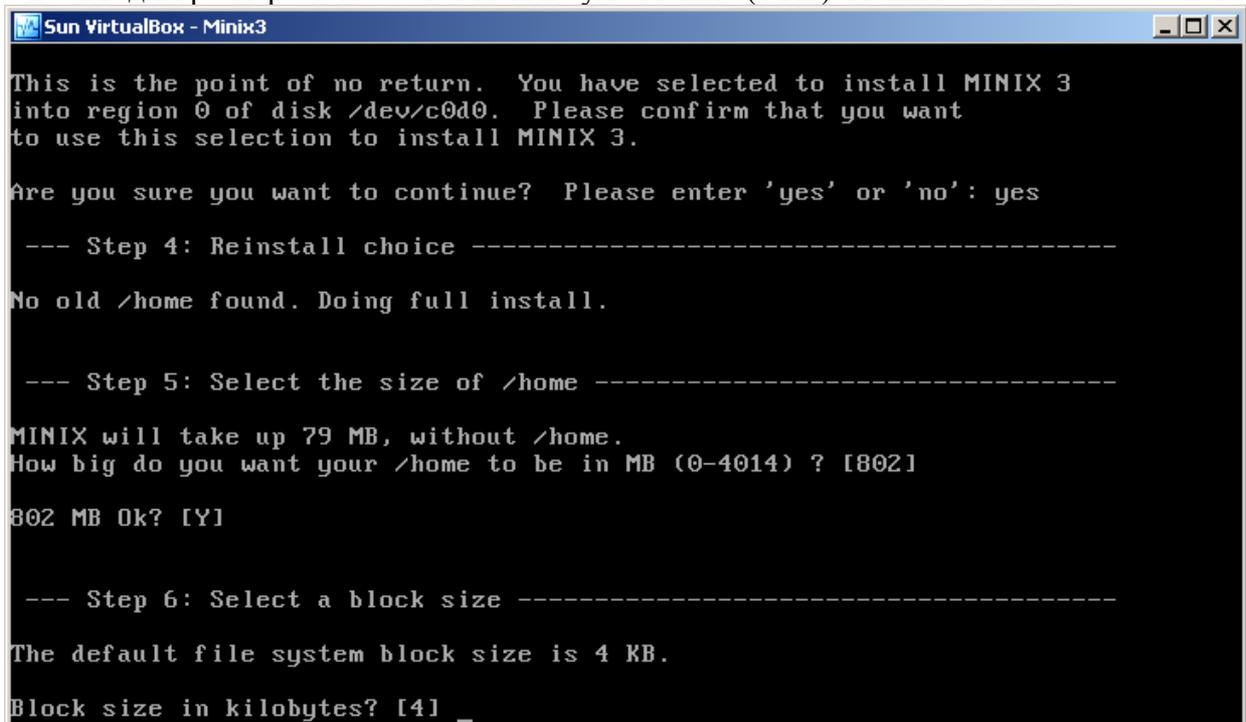
--- Step 4: Reinstall choice -----

No old /home found.  Doing full install.

--- Step 5: Select the size of /home -----

MINIX will take up 79 MB, without /home.
How big do you want your /home to be in MB (0-4014) ? [802]
802 MB Ok? [Y]
```

26. Вводим размер блока. Оставляем по умолчанию (4 КБ). Нажимаем Enter.



```
Sun VirtualBox - Minix3

This is the point of no return.  You have selected to install MINIX 3
into region 0 of disk /dev/c0d0.  Please confirm that you want
to use this selection to install MINIX 3.

Are you sure you want to continue?  Please enter 'yes' or 'no': yes

--- Step 4: Reinstall choice -----

No old /home found.  Doing full install.

--- Step 5: Select the size of /home -----

MINIX will take up 79 MB, without /home.
How big do you want your /home to be in MB (0-4014) ? [802]
802 MB Ok? [Y]

--- Step 6: Select a block size -----

The default file system block size is 4 KB.
Block size in kilobytes? [4]
```

27. Далее система устанавливается на виртуальную машину. У меня это занимает порядка 1 мин.

28. Выбор драйвера сетевой карты. Сетевая карта определяется автоматически из поддерживаемых. Пока не будем рассматривать работу с сетью и позволим системе действовать на свой выбор. Нажмем Enter.

```
Sun VirtualBox - Minix3
cp /.rootfiles ..
Done.
/dev/c0d0p0s1 is read-write mounted on /home
* Creating home directory for bin in /home/bin
* Creating home directory for ast in /home/ast
/dev/c0d0p0s1 unmounted from /home
Saving random data..
1+0 records in
1+0 records out

--- Step 8: Select your Ethernet chip -----

MINIX 3 currently supports the following Ethernet cards. PCI cards detected
by MINIX are marked with *. Please choose:

0. No Ethernet card (no networking)
1. Intel Pro/100
2. 3Com 501 or 3Com 509 based card
3. Realtek 8139 based card (also emulated by KVM)
4. Realtek 8029 based card (also emulated by Qemu)
5. NE2000, 3com 503 or WD based card (also emulated by Bochs)
6. * AMD LANCE (also emulated by VMWare and VirtualBox)
7. Different Ethernet card (no networking)

Ethernet card? [6] _
```

29. Настройка сети. Выберем ручной режим. Вводим 2 и нажимаем Enter.

```
Sun VirtualBox - Minix3
1+0 records in
1+0 records out

--- Step 8: Select your Ethernet chip -----

MINIX 3 currently supports the following Ethernet cards. PCI cards detected
by MINIX are marked with *. Please choose:

0. No Ethernet card (no networking)
1. Intel Pro/100
2. 3Com 501 or 3Com 509 based card
3. Realtek 8139 based card (also emulated by KVM)
4. Realtek 8029 based card (also emulated by Qemu)
5. NE2000, 3com 503 or WD based card (also emulated by Bochs)
6. * AMD LANCE (also emulated by VMWare and VirtualBox)
7. Different Ethernet card (no networking)

Ethernet card? [6]

Configure network using DHCP or manually?

1. Automatically using DHCP
2. Manually

Configure method? [1] _
```

30. Имя компьютера. Оставляем по умолчанию.

```
Sun VirtualBox - Minix3 - [Input captured]
1+0 records out

--- Step 8: Select your Ethernet chip -----

MINIX 3 currently supports the following Ethernet cards. PCI cards detected
by MINIX are marked with *. Please choose:

0.  No Ethernet card (no networking)
1.  Intel Pro/100
2.  3Com 501 or 3Com 509 based card
3.  Realtek 8139 based card (also emulated by KVM)
4.  Realtek 8029 based card (also emulated by Qemu)
5.  NE2000, 3com 503 or WD based card (also emulated by Bochs)
6.  * AMD LANCE (also emulated by VMWare and VirtualBox)
7.  Different Ethernet card (no networking)

Ethernet card? [6]

Configure network using DHCP or manually?

1.  Automatically using DHCP
2.  Manually

Configure method? [1] 2
Hostname [minix]:
```

31. Далее IP адрес, маску подсети, шлюз оставляем по умолчанию. Нажимаем Enter.

**32. Ура! Установка базовой системы завершена.**

```
Sun VirtualBox - Minix3
2.  Manually

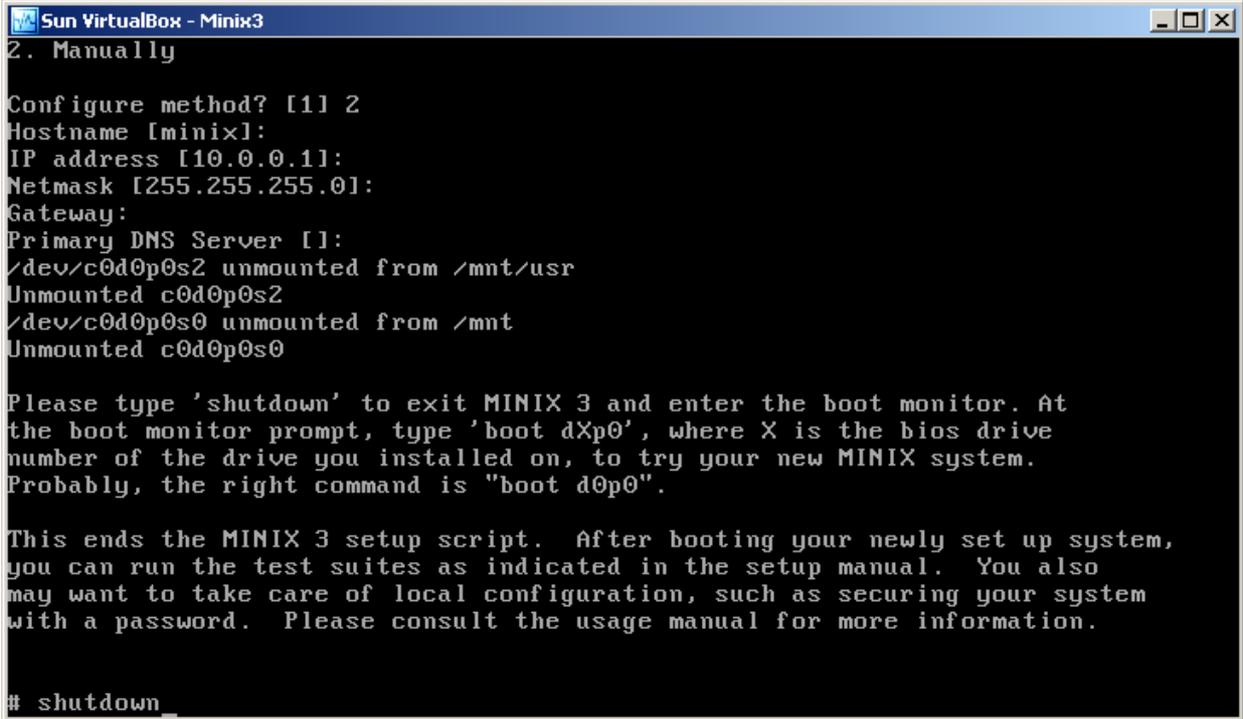
Configure method? [1] 2
Hostname [minix]:
IP address [10.0.0.1]:
Netmask [255.255.255.0]:
Gateway:
Primary DNS Server []:
/dev/c0d0p0s2 unmounted from /mnt/usr
Unmounted c0d0p0s2
/dev/c0d0p0s0 unmounted from /mnt
Unmounted c0d0p0s0

Please type 'shutdown' to exit MINIX 3 and enter the boot monitor. At
the boot monitor prompt, type 'boot dXp0', where X is the bios drive
number of the drive you installed on, to try your new MINIX system.
Probably, the right command is "boot d0p0".

This ends the MINIX 3 setup script. After booting your newly set up system,
you can run the test suites as indicated in the setup manual. You also
may want to take care of local configuration, such as securing your system
with a password. Please consult the usage manual for more information.

#
```

33. Вводим команду **shutdown** для завершения работы.



```
Sun VirtualBox - Minix3
2. Manually

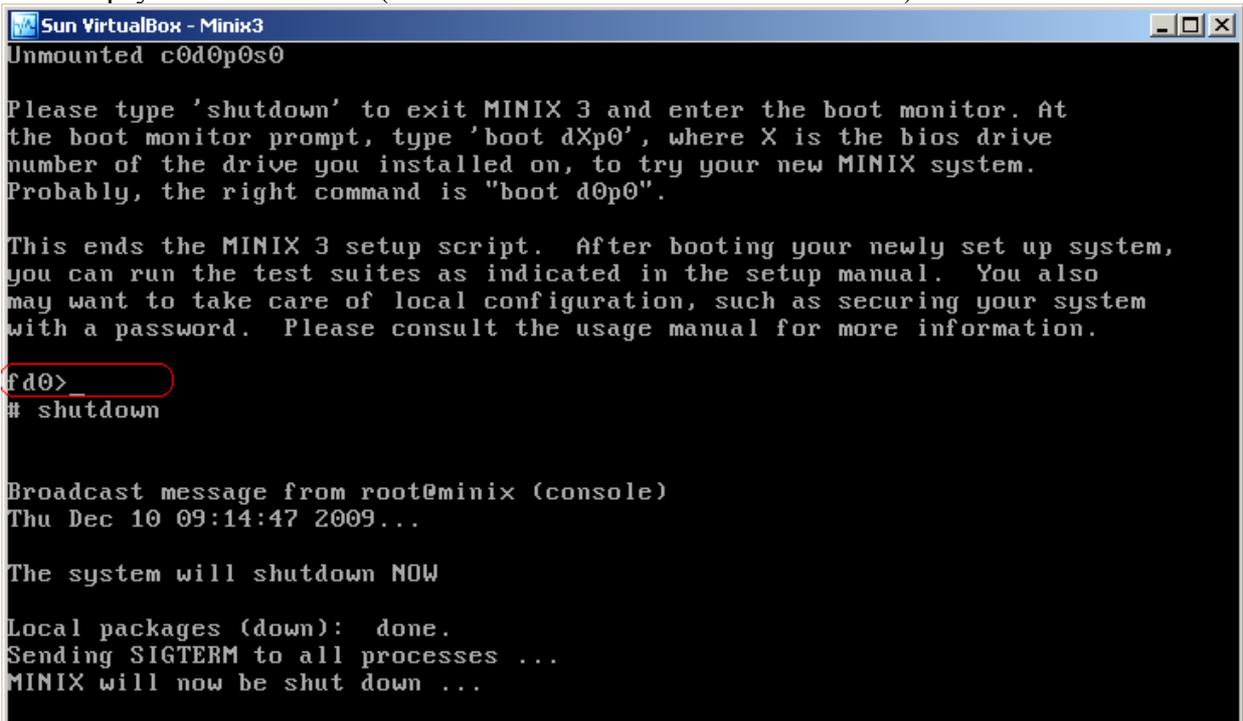
Configure method? [1] 2
Hostname [minix]:
IP address [10.0.0.1]:
Netmask [255.255.255.0]:
Gateway:
Primary DNS Server []:
/dev/c0d0p0s2 unmounted from /mnt/usr
Unmounted c0d0p0s2
/dev/c0d0p0s0 unmounted from /mnt
Unmounted c0d0p0s0

Please type 'shutdown' to exit MINIX 3 and enter the boot monitor. At
the boot monitor prompt, type 'boot dXp0', where X is the bios drive
number of the drive you installed on, to try your new MINIX system.
Probably, the right command is "boot d0p0".

This ends the MINIX 3 setup script. After booting your newly set up system,
you can run the test suites as indicated in the setup manual. You also
may want to take care of local configuration, such as securing your system
with a password. Please consult the usage manual for more information.

# shutdown_
```

34. Операционная система завершает работу и выходит в загрузчик. Здесь можно ввести **boot d0p0** для загрузки или **exit** для выключения или просто закрыть окно виртуальной машины (что аналогично отключению питания).



```
Sun VirtualBox - Minix3
Unmounted c0d0p0s0

Please type 'shutdown' to exit MINIX 3 and enter the boot monitor. At
the boot monitor prompt, type 'boot dXp0', where X is the bios drive
number of the drive you installed on, to try your new MINIX system.
Probably, the right command is "boot d0p0".

This ends the MINIX 3 setup script. After booting your newly set up system,
you can run the test suites as indicated in the setup manual. You also
may want to take care of local configuration, such as securing your system
with a password. Please consult the usage manual for more information.

fd0>
# shutdown

Broadcast message from root@minix (console)
Thu Dec 10 09:14:47 2009...

The system will shutdown NOW

Local packages (down): done.
Sending SIGTERM to all processes ...
MINIX will now be shut down ...
```

35. Загружаем установленную операционную систему (запускаем подготовленный bat файл).

```
Sun VirtualBox - Minix3
Welcome to MINIX 3.1.5.

This snapshot is an interim release, not final release quality. It is
intended as a prerelease for developers.

The system is now running and many commands work normally. To use MINIX
in a serious way, you need to install it to your hard disk, which you
can do by typing 'setup' while logged in as root. Then just follow the
on-screen directions.

After setup is complete, type 'shutdown' and when the boot monitor
starts, boot your new system by following the instructions at the end of
setup. Keep the CD-ROM in the drive, login as root and type 'packman'
to begin installing the many software packages available. After you
have installed the packages, type 'xdm' to start X Windows if you have
installed it.

Before you begin the installation process, it is strongly recommended
that you print and carefully read the installation instructions
available on the MINIX 3 website: http://www.minix3.org.

Minix Release 3 Version 1.5 (console)

minix login: _
```

36. Вводим **root**

37. Проверим ОС на работоспособность по компиляции программ. Для этого вводим

**cd /usr/src/test** – перейти в директорию с тестовыми утилитами

**ls** — посмотрим содержимое директории

**make** - скомпилируем

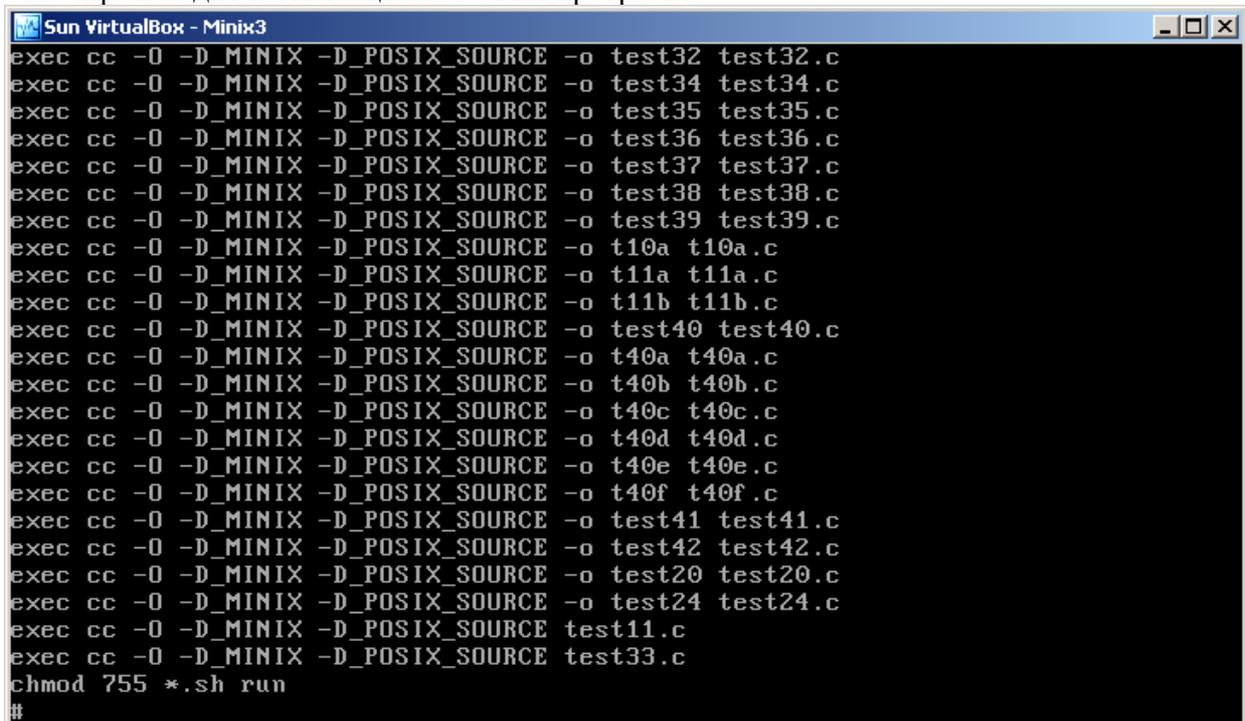
```
Sun VirtualBox - Minix3
starts, boot your new system by following the instructions at the end of
setup. Keep the CD-ROM in the drive, login as root and type 'packman'
to begin installing the many software packages available. After you
have installed the packages, type 'xdm' to start X Windows if you have
installed it.

Before you begin the installation process, it is strongly recommended
that you print and carefully read the installation instructions
available on the MINIX 3 website: http://www.minix3.org.

Minix Release 3 Version 1.5 (console)

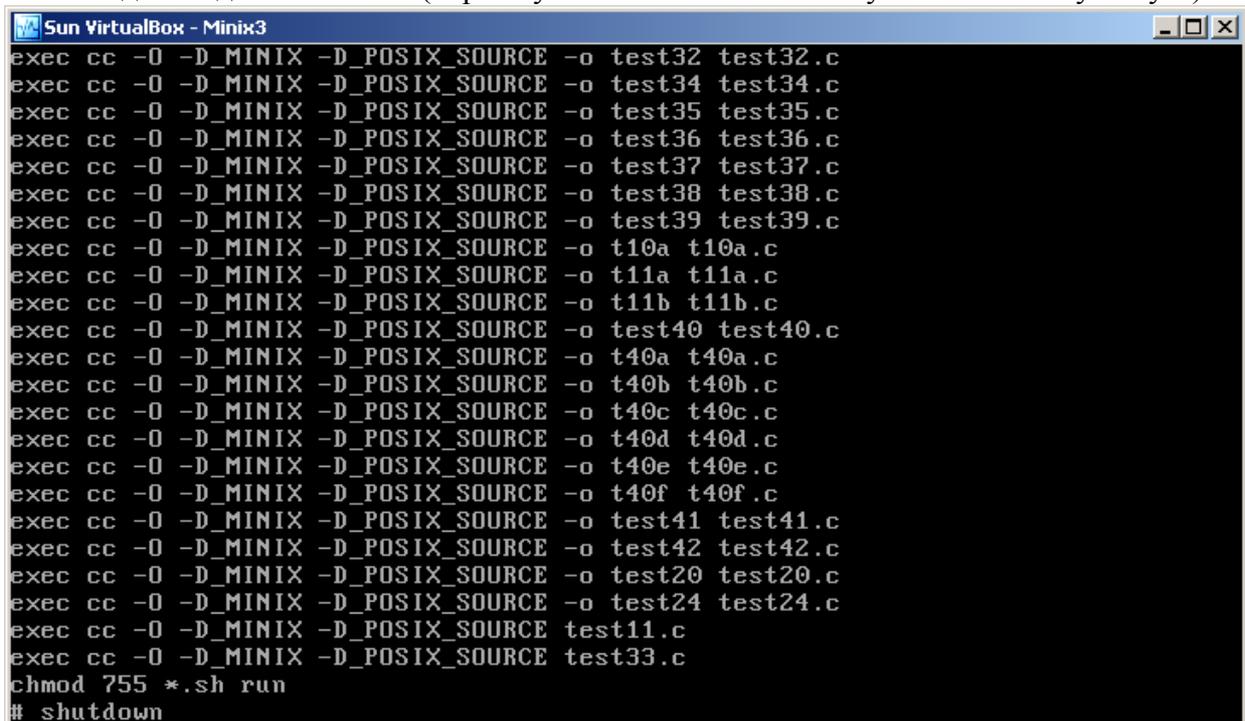
minix login: root
# cd /usr/src/test
# ls
Makefile      t40b.c      test13.c    test21.c    test3.c     test38.c    test8.c
common.c     t40c.c      test14.c    test22.c    test30.c    test39.c    test9.c
ipc          t40d.c      test15.c    test23.c    test31.c    test4.c     testsh1.sh
run         t40e.c      test16.c    test24.c    test32.c    test40.c    testsh2.sh
select      t40f.c      test17.c    test25.c    test33.c    test41.c
t10a.c      test1.c     test18.c    test26.c    test34.c    test42.c
t11a.c      test10.c    test19.c    test27.c    test35.c    test5.c
t11b.c      test11.c    test2.c     test28.c    test36.c    test6.c
t40a.c      test12.c    test20.c    test29.c    test37.c    test7.c
# make_
```

### 38. Происходит компиляция тестовых программ.



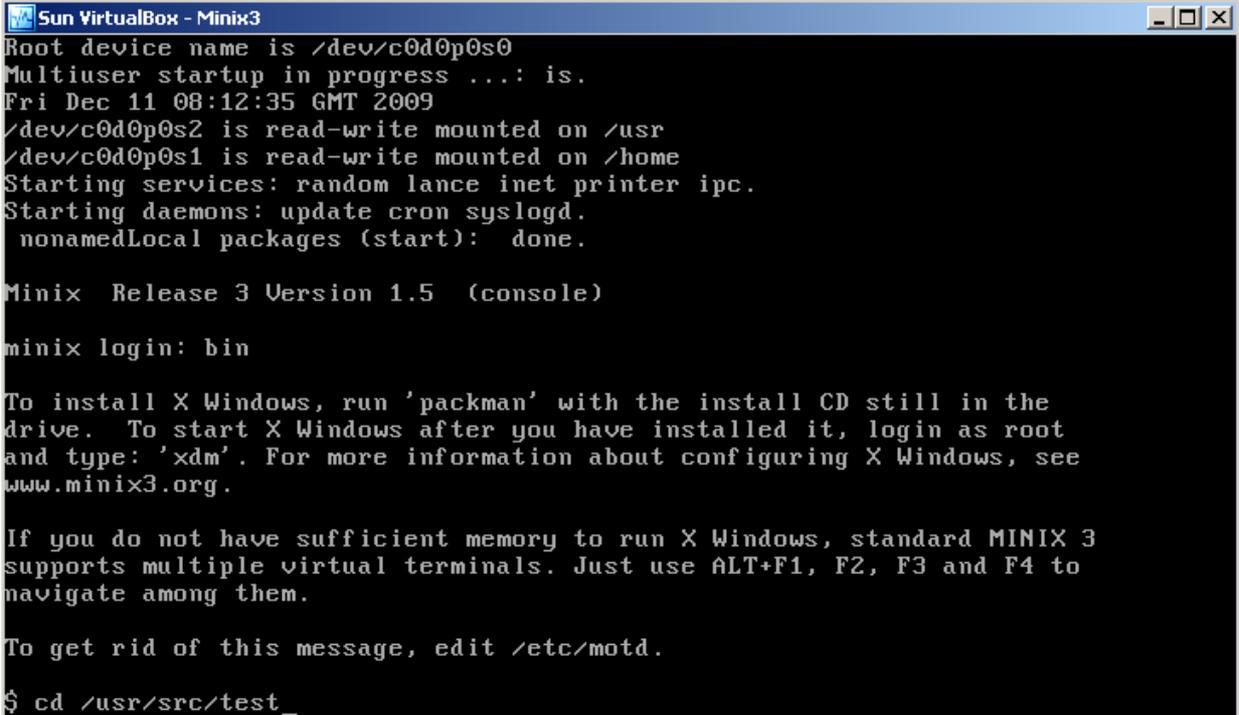
```
Sun VirtualBox - Minix3
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test32 test32.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test34 test34.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test35 test35.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test36 test36.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test37 test37.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test38 test38.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test39 test39.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t10a t10a.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t11a t11a.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t11b t11b.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test40 test40.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40a t40a.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40b t40b.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40c t40c.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40d t40d.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40e t40e.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40f t40f.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test41 test41.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test42 test42.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test20 test20.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test24 test24.c
exec cc -O -D_MINIX -D_POSIX_SOURCE test11.c
exec cc -O -D_MINIX -D_POSIX_SOURCE test33.c
chmod 755 *.sh run
#
```

39. Выходим из режима root, для того, чтобы войти под пользователем bin и проверить работоспособность тестовых программ. Для этого выполняем команду **shutdown**. Система выйдет в загрузчик. Выполняем в загрузчике команду **boot d0p0**. За тем входим под именем **bin** (пароль у этого пользователя по умолчанию отсутствует).



```
Sun VirtualBox - Minix3
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test32 test32.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test34 test34.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test35 test35.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test36 test36.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test37 test37.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test38 test38.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test39 test39.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t10a t10a.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t11a t11a.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t11b t11b.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test40 test40.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40a t40a.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40b t40b.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40c t40c.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40d t40d.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40e t40e.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o t40f t40f.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test41 test41.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test42 test42.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test20 test20.c
exec cc -O -D_MINIX -D_POSIX_SOURCE -o test24 test24.c
exec cc -O -D_MINIX -D_POSIX_SOURCE test11.c
exec cc -O -D_MINIX -D_POSIX_SOURCE test33.c
chmod 755 *.sh run
# shutdown
```

40. За тем переходим в директорию /usr/src/test



```
Sun VirtualBox - Minix3
Root device name is /dev/c0d0p0s0
Multiuser startup in progress ...: is.
Fri Dec 11 08:12:35 GMT 2009
/dev/c0d0p0s2 is read-write mounted on /usr
/dev/c0d0p0s1 is read-write mounted on /home
Starting services: random lance inet printer ipc.
Starting daemons: update cron syslogd.
nonamedLocal packages (start): done.

Minix Release 3 Version 1.5 (console)

minix login: bin

To install X Windows, run 'packman' with the install CD still in the
drive. To start X Windows after you have installed it, login as root
and type: 'xdm'. For more information about configuring X Windows, see
www.minix3.org.

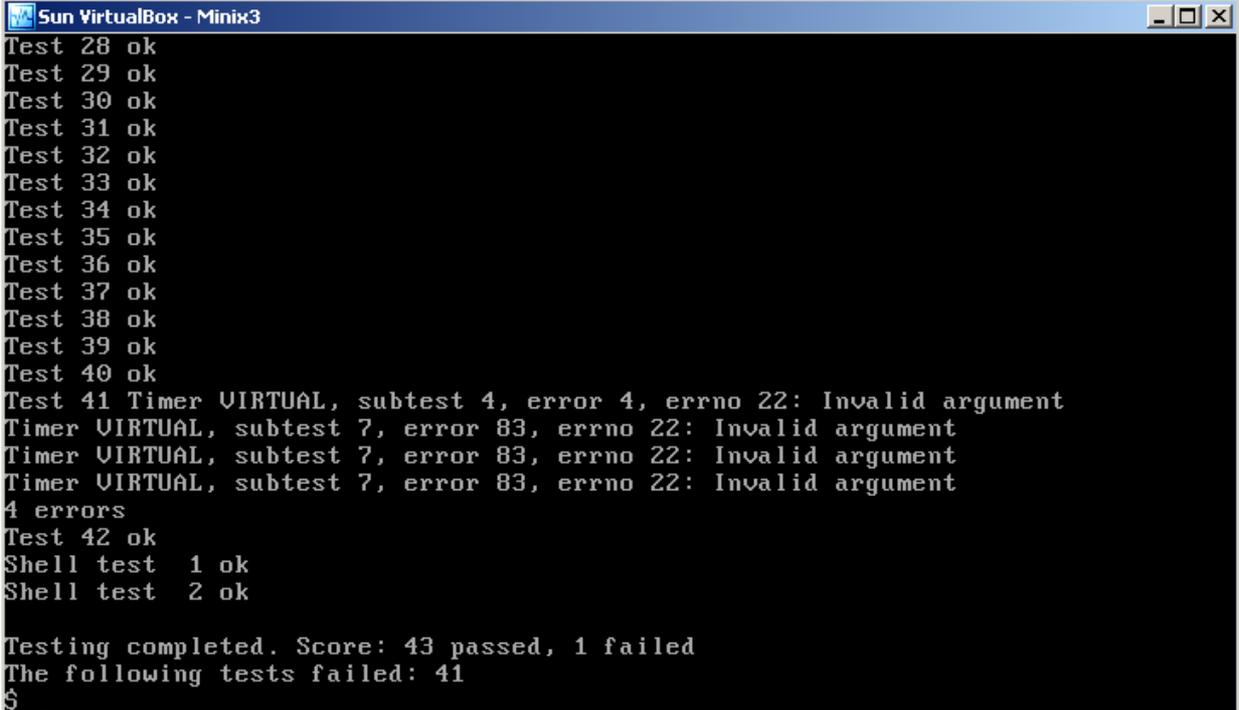
If you do not have sufficient memory to run X Windows, standard MINIX 3
supports multiple virtual terminals. Just use ALT+F1, F2, F3 and F4 to
navigate among them.

To get rid of this message, edit /etc/motd.

$ cd /usr/src/test_
```

41. Выполним команду **./run**

42. В итоге у меня получается такая картина



```
Sun VirtualBox - Minix3
Test 28 ok
Test 29 ok
Test 30 ok
Test 31 ok
Test 32 ok
Test 33 ok
Test 34 ok
Test 35 ok
Test 36 ok
Test 37 ok
Test 38 ok
Test 39 ok
Test 40 ok
Test 41 Timer VIRTUAL, subtest 4, error 4, errno 22: Invalid argument
Timer VIRTUAL, subtest 7, error 83, errno 22: Invalid argument
Timer VIRTUAL, subtest 7, error 83, errno 22: Invalid argument
Timer VIRTUAL, subtest 7, error 83, errno 22: Invalid argument
4 errors
Test 42 ok
Shell test 1 ok
Shell test 2 ok

Testing completed. Score: 43 passed, 1 failed
The following tests failed: 41
$
```

43. ...

Дополнительная информация

<http://www.minix3.ru/docs/setup-russian.pdf> - Руководство по установке (рус)

<http://www.minix3.ru/> - Сайт русскоязычного сообщества разработчиков и пользователей операционной системы **MINIX 3**